

What is claimed is:

*Synt* 1. A golf ball having a cover and a core centrally disposed within said cover, said cover including a combination of a first component and a second component, wherein  
5           said first component comprises an isophthalic acid polyamide formed from reacting an agent including at least one of phthalic acid, isophthalic acid, and terephthalic acid; and  
              said second component comprises an ionomer. *NOT Isophthalic*

2. The golf ball according to claim 1, wherein said first component further comprises at least one member selected from the group consisting of a polyamide homopolymer and a polyamide copolymer.

3. The golf ball according to claim 1, wherein said combination of said first component and said second component is a reaction product.

4. The golf ball according to claim 1, wherein said first component is present in a mixture with said second component.

5. The golf ball according to claim 1, wherein said first component constitutes from about 10% to about 80% by weight of said cover.

6. The golf ball according to claim 1, wherein said second component constitutes from about 90% to about 40% by weight of said cover.

7. The golf ball according to claim 1, wherein said cover includes from about 10% to about 60% by weight of said first component and from about 90% to about 40% by weight of said second component.

8. The golf ball according to claim 1, wherein said golf ball exhibits a coefficient of restitution of at least 0.750.

9. The golf ball according to claim 1, wherein said golf ball exhibits a coefficient of restitution of at least 0.800.

10. The golf ball according to claim 1, wherein said golf ball exhibits a Riehle compression of less than about 75.

11. The golf ball according to claim 1, wherein said combination further includes an ester component.

12. The golf ball according to claim 11, wherein said ester component is an olefin ester component.

13. The golf ball according to claim 12, wherein said combination is a reaction product of said first component, said second component and said olefin ester component

14. The golf ball according to claim 1, wherein said second component further comprises an alkyl acrylate.

15. The golf ball according to claim 1, wherein said polyamide of said first component is a polyphthalamide and said ionomer of said second component is an ionomeric copolymer of two types of monomers.

16. The golf ball according to claim 1, wherein said first component is a polyphthalamide homopolymer and said second component is an ionomeric terpolymer.

17. The golf ball according to claim 11, wherein said ionomer of said second component is a zinc-neutralized copolymer of ethylene and

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methacrylic acid, and said ester component is a copolymer of ethylene and ethylacrylate.

*Sub A4*

18. A golf ball comprising:

a core; and

a cover layer disposed about said core, said cover layer including an isophthalic acid polyamide.

19. The golf ball of claim 18 wherein said isophthalic acid polyamide is formed from at least one of phthalic acid, isophthalic acid, and terephthalic acid.

*hot 150°ntw*

20. The golf ball of claim 18 wherein said isophthalic acid polyamide exhibits a melting point of about 590°F.

21. The golf ball of claim 18 wherein said isophthalic acid polyamide has a specific gravity of about 1.15.

22. The golf ball of claim 18 wherein said cover layer includes from about 10% to about 60% of said isophthalic acid polyamide based upon the weight of said cover layer.

23. The golf ball of claim 22 wherein said cover layer includes from about 15% to about 50% of said isophthalic acid polyamide based upon the weight of said cover layer.

24. The golf ball of claim 23 wherein said cover layer includes from about 20% to about 40% of said isophthalic acid polyamide based upon the weight of said cover layer.

25. The golf ball of claim 18 wherein said golf ball exhibits a coefficient of restitution of at least 0.750.

26. The golf ball of claim 25 wherein said golf ball exhibits a coefficient of restitution of at least 0.800.

27. The golf ball of claim 18 wherein said golf ball exhibits a Riehle compression of less than 75.

28. The golf ball of claim 27 wherein said golf ball exhibits a Riehle compression of less than 71.

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29. A golf ball comprising:  
a core;  
a mantle layer disposed about said core; and  
a cover layer disposed on said mantle;

5 wherein said mantle layer comprises an isophthalic acid polyamide.

30. The golf ball of claim 29 wherein said mantle layer comprises polyphthalamide.

*limiting?*

31. A method of making a golf ball, comprising the steps of:  
obtaining a golf ball core, and  
forming a cover layer over the core, said cover layer having  
a resin composition comprising a combination of an isophthalic acid  
polyamide component and an ionomeric component, the amount of said  
5 isophthalic acid polyamide component being at least 10 wt. % of said resin  
composition.